

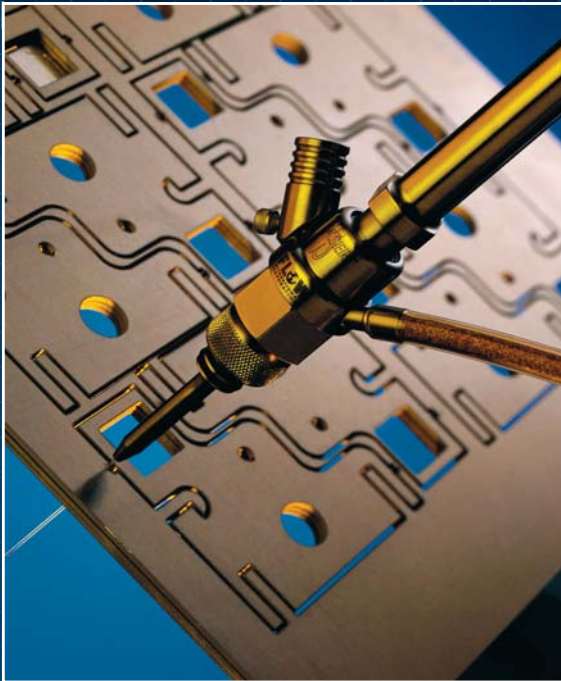
DYNAMIC WATERJET CUTTING



ULTRAHIGH PRESSURE

NO HEAT DISTORTION

GREATER ACCURACY
CUT COMPLEX SHAPES



ParkerSteel
STEEL STOCKHOLDERS

Parker



“STATE OF THE ART CUTTING, WITH ULTIMATE PRECISION AND CONTROL”

ADVANTAGES OVER TRADITIONAL CUTTING METHODS:

- Cut a variety of materials with just one tool
- No direct contact between the cutting head and the workpiece, resulting in minimum lateral or vertical force
- Virtually no induced tension or micro cracks
- No heat distortion or heat-affected zones
- Efficient use for material thicknesses of up to 200mm



MATERIAL AND APPLICATIONS

Ultrahigh-pressure waterjet and abrasivejet systems are used in a wide variety of industrial cutting applications

Job Shops

- The cutting of contours in literally any material in two dimensions

Metal Industry

- Cold cut net parts of outstanding quality in any material. In general the parts can be used without the need for post-processing

Aerospace

- Composite materials (Kevlar, graphite etc) and heat-sensitive materials such as aluminium alloys, stainless steel, inconel and titanium

Automotive

- Shape cutting of instrumental panels, insulators, door panels, bumpers & headliners

Gaskets and seals

- Any kind of seal can be rapidly programmed and easily cut

Plastics

- Shape cutting in two and three dimensions of a wide variety of plastic, thermoplastic and composite materials

Stone and tile products

- Inlays, stairways, borders, countertops etc. in marble, granite, ceramics & other materials

ADDITIONAL SERVICES

- Cutting of free issue material from customers can be cut at customers own risk and subject to electronic drawings being received in accepted file formats (see benefits)
- Cutting of non metallic items
- Scribing / Etching of part numbers on to material

Call our sales team on 08705 783333 for full details and to discuss requirements

DYNAMIC WATERJET

Dynamic Waterjet with Active Tolerance Control, produces more accurate parts at significantly higher cutting speeds than parts cut with a conventional waterjet.

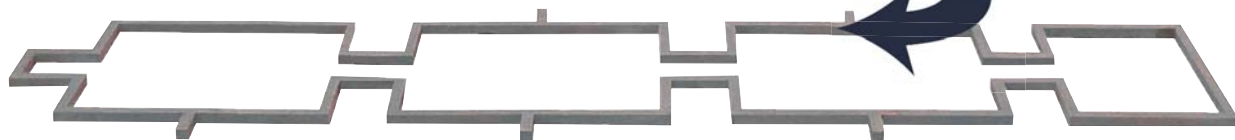
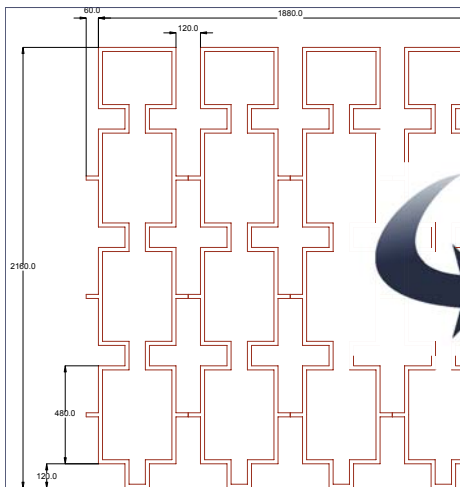
This patent pending system utilizes a newly developed advanced motion system that incorporates unique mathematical cutting models.

System lag and taper are a natural, but undesirable, result of cutting with a beam-type cutter such as a waterjet. The faster parts are cut, the greater the stream lag. Stream lag causes part geometry errors.

Applications that were previously too inaccurate, slow or expensive to cut using conventional abrasive waterjet technology are now of interest for Dynamic Waterjet.

This revolutionary new technology opens up markets to current waterjet users, such as tool and die industry, manufacturing of high-precision components of the aerospace industry, as well as the production of high quality stone inlays, where in the past manufacturers might have selected alternative processes such as laser, milling, wire EDM, punching, or routing

from design to production



SPECIFICATIONS

Material	Mild Steel	Stainless Steel	Aluminium
Minimum Thickness	0.5mm	0.5mm	0.5mm
Maximum Thickness	200mm	200mm	200mm
Maximum Width	2,000mm	2,000mm	2,000mm
Maximum Length	4,000mm	4,000mm	4,000mm
Minimum Diameter Hole	2.5mm	2.5mm	2.5mm

Dependant on material thickness and cutting speed you can specify the following cut quality: Fast, Standard or Premier. Please call our sales team for more information

BENEFITS

- The ultimate process for cutting sheet & plate
- Full CAD/CAM integration with design flexibility
- The following file formats are accepted: DXF, DWG, DSTV (NC files), IGES, PSM, ASM, PAR & others
- No heat distortion or heat affected zones
- Save your drawings as a part number for quick re-ordering of cut parts
- Highly efficient cutting head producing up to 4,150 bar (60,000 psi) of pressurised water
- Revolutionary technology allowing fast cutting of high precision components
- Dynamic waterjet, produces more accurate parts at significantly higher cutting speeds
- Clean, crisp finish, parts can generally be used without the need for post processing

DRILLING

LASER CUTTING

GRINDING

PRIMING

PLASMA CUTTING

FLAME CUTTING

SAW CUTTING

PUNCHING

MULTI-PROCESSING

FOLDING

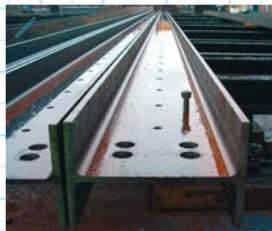
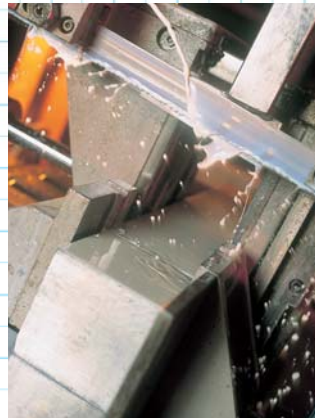
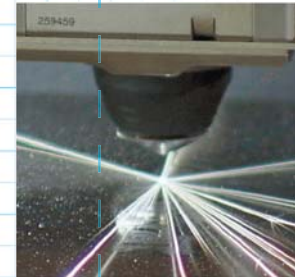
HEAT TREATMENT

WATERJET CUTTING

SHOTBLASTING

ULTRASONIC

CHAMFERING



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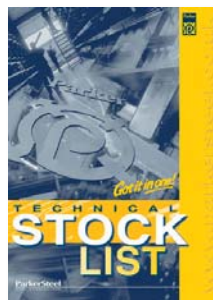
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Other Publications of Interest



**P19 Steel
Technical
Stocklist**



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Ideas Leaflet**



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